

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
11 January 2001 (11.01.2001)

PCT

(10) International Publication Number  
**WO 01/02195 A1**

(51) International Patent Classification<sup>7</sup>: **B60C 17/00**,  
9/09, 9/11

(21) International Application Number: PCT/US99/14963

(22) International Filing Date: 1 July 1999 (01.07.1999)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicants (for all designated States except US): **THE GOODYEAR TIRE & RUBBER COMPANY [US/US];**  
1144 East Market Street, Akron, OH 44316-0001 (US).  
**NGUYEN, Gia, Van [BE/BE];** Rue des Ecoles 243,  
B-6730 Rossignol (BE).

(81) Designated States (*national*): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

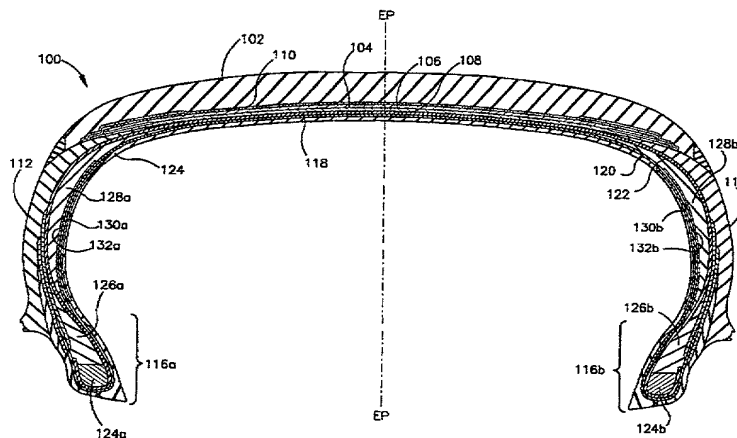
(72) Inventor; and

(75) Inventor/Applicant (for US only): **COLANTONIO, Laurent [BE/BE];** 55, Cobru, B-6600 (BE).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(74) Agent: **COHN, Howard, M.;** c/o Robert W. Brown, The Goodyear Tire & Rubber Company, Dept. 823, 1144 East Market Street, Akron, OH 44309-3531 (US).

(54) Title: FABRIC SUPPORT FOR METAL REINFORCED INNER PLY OF RUNFLAT TIRE



(57) Abstract: Fabric treatment layers (130a, 130b, 132a, 132b) are deployed in the sidewall regions of a runflat tire (100) having a metal-reinforced first ply (120). In one embodiment, parallel cord, reinforced fabric treatment layers (130a, 130b, 132a, 132b) sandwich the metal-reinforced first ply (120) and inhibit buckling of the reinforcing cords (70) of the first ply during runflat operation when the ply cords or wires are bearing compression loads. In another embodiment, a single woven fabric treatment layer (170a, 170b) is disposed in each sidewall region (152, 154) at a location immediately axially inward of the metal-reinforced first ply (160).